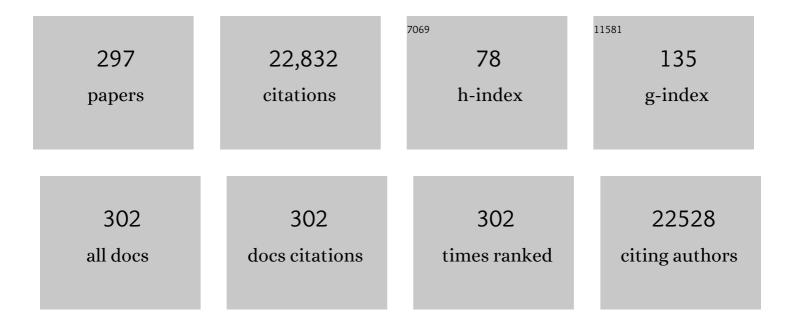
Catherine E Costello

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A systematic nomenclature for carbohydrate fragmentations in FAB-MS/MS spectra of glycoconjugates. Glycoconjugate Journal, 1988, 5, 397-409.	1.4	2,435
2	A common open representation of mass spectrometry data and its application to proteomics research. Nature Biotechnology, 2004, 22, 1459-1466.	9.4	724
3	How many human proteoforms are there?. Nature Chemical Biology, 2018, 14, 206-214.	3.9	580
4	Tabulation of human transthyretin (TTR) variants, 2003. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2003, 10, 160-184.	1.4	449
5	CD1c-mediated T-cell recognition of isoprenoid glycolipids in Mycobacterium tuberculosis infection. Nature, 2000, 404, 884-888.	13.7	436
6	Comparison of the methods for profiling glycoprotein glycans—HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. Glycobiology, 2007, 17, 411-422.	1.3	382
7	Electron Capture Dissociation and Infrared Multiphoton Dissociation MS/MS of an N-Glycosylated Tryptic Peptide To Yield Complementary Sequence Information. Analytical Chemistry, 2001, 73, 4530-4536.	3.2	362
8	Carbohydrate Molecular Weight Profiling, Sequence, Linkage, and Branching Data: ES-MS and CID. Analytical Chemistry, 1995, 67, 1772-1784.	3.2	336
9	Structure elucidation of glycosphingolipids and gangliosides using high-performance tandem mass spectrometry. Biochemistry, 1988, 27, 1534-1543.	1.2	307
10	The Human Proteome Project: Current State and Future Direction. Molecular and Cellular Proteomics, 2011, 10, M111.009993.	2.5	294
11	Evidence of the Immune Relevance of <i>Prevotella copri</i> , a Gut Microbe, in Patients With Rheumatoid Arthritis. Arthritis and Rheumatology, 2017, 69, 964-975.	2.9	277
12	T Cell Activation by Lipopeptide Antigens. Science, 2004, 303, 527-531.	6.0	255
13	Elimination of Oxidative Degradation during the per-O-Methylation of Carbohydrates. Journal of the American Chemical Society, 2003, 125, 16213-16219.	6.6	244
14	Glycosylphosphatidylinositol Anchors of Plasmodium falciparum. Journal of Experimental Medicine, 2000, 192, 1563-1576.	4.2	220
15	Electron Capture Dissociation Initiates a Free Radical Reaction Cascade. Journal of the American Chemical Society, 2003, 125, 8949-8958.	6.6	211
16	Muramic lactam in peptidoglycan of Bacillus subtilis spores is required for spore outgrowth but not for spore dehydration or heat resistance. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 15405-15410.	3.3	209
17	Software Tool for Researching Annotations of Proteins: Open-Source Protein Annotation Software with Data Visualization. Analytical Chemistry, 2009, 81, 9819-9823.	3.2	207
18	Plasmin Desensitization of the PAR1 Thrombin Receptor:Â Kinetics, Sites of Truncation, and Implications for Thrombolytic Therapyâ€. Biochemistry, 1999, 38, 4572-4585.	1.2	202

#	Article	IF	CITATIONS
19	The biochemical origins of the surface-enhanced Raman spectra of bacteria: a metabolomics profiling by SERS. Analytical and Bioanalytical Chemistry, 2016, 408, 4631-4647.	1.9	194
20	Identification of Protein Components in Human Acquired Enamel Pellicle and Whole Saliva Using Novel Proteomics Approaches. Journal of Biological Chemistry, 2003, 278, 5300-5308.	1.6	191
21	LC-MS-based method for the qualitative and quantitative analysis of complex lipid mixtures. Journal of Lipid Research, 2006, 47, 804-814.	2.0	191
22	[40] Tandem mass spectrometry of glycolipids. Methods in Enzymology, 1990, 193, 738-768.	0.4	174
23	Synthesis and characterization of hexakis(alkyl isocyanide) and hexakis(aryl isocyanide) complexes of technetium(I). Inorganic Chemistry, 1983, 22, 2798-2800.	1.9	168
24	Isotope-Coded Affinity Tag (ICAT) Approach to Redox Proteomics:Â Identification and Quantitation of Oxidant-Sensitive Cysteine Thiols in Complex Protein Mixtures. Journal of Proteome Research, 2004, 3, 1228-1233.	1.8	168
25	Mycobacterium tuberculosis pks12 Produces a Novel Polyketide Presented by CD1c to T Cells. Journal of Experimental Medicine, 2004, 200, 1559-1569.	4.2	166
26	CD209L/L-SIGN and CD209/DC-SIGN Act as Receptors for SARS-CoV-2. ACS Central Science, 2021, 7, 1156-1165.	5.3	165
27	Human Proteinpedia enables sharing of human protein data. Nature Biotechnology, 2008, 26, 164-167.	9.4	155
28	Matrix-assisted laser desorption ionization time-of-flight mass spectrometry of underivatized and permethylated gangliosides. Journal of the American Society for Mass Spectrometry, 1992, 3, 785-796.	1.2	154
29	Deamidation: Differentiation of aspartyl from isoaspartyl products in peptides by electron capture dissociation. Protein Science, 2005, 14, 452-463.	3.1	154
30	Two rheumatoid arthritis–specific autoantigens correlate microbial immunity with autoimmune responses in joints. Journal of Clinical Investigation, 2017, 127, 2946-2956.	3.9	152
31	A glycomics platform for the analysis of permethylated oligosaccharide alditols. Journal of the American Society for Mass Spectrometry, 2007, 18, 1799-1812.	1.2	150
32	Abnormal proteins can form aggresome in yeast: aggresomeâ€ŧargeting signals and components of the machinery. FASEB Journal, 2009, 23, 451-463.	0.2	150
33	Tandem Mass Spectrometry of Sulfated Heparin-Like Glycosaminoglycan Oligosaccharides. Analytical Chemistry, 2003, 75, 2445-2455.	3.2	140
34	Transformative Impact of Proteomics on Cardiovascular Health and Disease. Circulation, 2015, 132, 852-872.	1.6	140
35	Compositional Analysis of Glycosaminoglycans by Electrospray Mass Spectrometry. Analytical Chemistry, 2001, 73, 233-239.	3.2	139
36	Comparison of Methods for Profiling O-Glycosylation. Molecular and Cellular Proteomics, 2010, 9, 719-727.	2.5	136

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37	Amyloidogenic and Associated Proteins in Systemic Amyloidosis Proteome of Adipose Tissue. Molecular and Cellular Proteomics, 2008, 7, 1570-1583.	2.5	134
38	Trichomonas vaginalis Lipophosphoglycan Triggers a Selective Upregulation of Cytokines by Human Female Reproductive Tract Epithelial Cells. Infection and Immunity, 2006, 74, 5773-5779.	1.0	133
39	Cardiac amyloidosis in African Americans: Comparison of clinical and laboratory features of transthyretin V122I amyloidosis and immunoglobulin light chain amyloidosis. American Heart Journal, 2009, 158, 607-614.	1.2	129
40	Identification of Transcription Complexes that Contain the Double Bromodomain Protein Brd2 and Chromatin Remodeling Machines. Journal of Proteome Research, 2006, 5, 502-511.	1.8	128
41	Structural Features of the Acyl Chain Determine Self-phospholipid Antigen Recognition by a CD1d-restricted Invariant NKT (iNKT) Cell. Journal of Biological Chemistry, 2003, 278, 47508-47515.	1.6	123
42	High-performance tandem mass spectrometry: calibration and performance of linked scans of a four-sector instrument. Analytical Chemistry, 1987, 59, 1652-1659.	3.2	122
43	Sequence Communication: Tabulation of transthyretin (TTR) variants as of 1/1/2000. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2000, 7, 54-69.	1.4	122
44	Molecular Mechanism of Lipopeptide Presentation by CD1a. Immunity, 2005, 22, 209-219.	6.6	122
45	COG8 deficiency causes new congenital disorder of glycosylation type IIh. Human Molecular Genetics, 2007, 16, 731-741.	1.4	122
46	Matrix-assisted laser desorption ionization mass spectrometry with 2-(4-hydroxyphenylazo)benzoic acid matrix. Journal of the American Society for Mass Spectrometry, 1993, 4, 399-409.	1.2	119
47	Distinct Glycan Structures of Uroplakins Ia and Ib. Journal of Biological Chemistry, 2006, 281, 14644-14653.	1.6	119
48	Lipid Sorting by Ceramide Structure from Plasma Membrane to ER for the Cholera Toxin Receptor Ganglioside GM1. Developmental Cell, 2012, 23, 573-586.	3.1	119
49	The aryl hydrocarbon receptor directs hematopoietic progenitor cell expansion and differentiation. Blood, 2013, 122, 376-385.	0.6	119
50	The SysteMHC Atlas project. Nucleic Acids Research, 2018, 46, D1237-D1247.	6.5	119
51	Characterization of Transthyretin Mutants from Serum Using Immunoprecipitation, HPLC/Electrospray Ionization and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 1999, 71, 452-459.	3.2	117
52	D18G Transthyretin Is Monomeric, Aggregation Prone, and Not Detectable in Plasma and Cerebrospinal Fluid: A Prescription for Central Nervous System Amyloidosis?â€. Biochemistry, 2003, 42, 6656-6663.	1.2	117
53	A high pressure matrix-assisted laser desorption/ionization Fourier transform mass spectrometry ion source for thermal stabilization of labile biomolecules. Rapid Communications in Mass Spectrometry, 2001, 15, 1862-1868.	0.7	116
54	MIRAGE: The minimum information required for a glycomics experiment. Glycobiology, 2014, 24, 402-406.	1.3	116

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55	Reverse transcription-associated dephosphorylation of hepadnavirus nucleocapsids. Proceedings of the United States of America, 2005, 102, 9020-9025.	3.3	113
56	Glycoform Quantification of Chondroitin/Dermatan Sulfate Using a Liquid Chromatographyâ^'Tandem Mass Spectrometry Platform. Biochemistry, 2006, 45, 2350-2361.	1.2	112
57	Isotope-coded Affinity Tag Approach to Identify and Quantify Oxidant-sensitive Protein Thiols. Molecular and Cellular Proteomics, 2004, 3, 273-278.	2.5	108
58	Ppm1, a novel polyprenol monophosphomannose synthase from Mycobacterium tuberculosis. Biochemical Journal, 2002, 365, 441-450.	1.7	107
59	Coupling Thin-Layer Chromatography with Vibrational Cooling Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry for the Analysis of Ganglioside Mixtures. Analytical Chemistry, 2004, 76, 6484-6491.	3.2	105
60	Identification of Trichomonas vaginalis Cysteine Proteases That Induce Apoptosis in Human Vaginal Epithelial Cells. Journal of Biological Chemistry, 2005, 280, 23853-23860.	1.6	105
61	Separation and Identification of Isomeric Glycans by Selected Accumulation-Trapped Ion Mobility Spectrometry-Electron Activated Dissociation Tandem Mass Spectrometry. Analytical Chemistry, 2016, 88, 3440-3443.	3.2	105
62	Immune versus thrombotic stimulation of platelets differentially regulates signalling pathways, intracellular protein-protein interactions, and α-granule release. Thrombosis and Haemostasis, 2009, 102, 97-110.	1.8	104
63	Direct matrix-assisted laser desorption/ionization mass spectrometric analysis of glycosphingolipids on thin layer chromatographic plates and transfer membranes. Rapid Communications in Mass Spectrometry, 1999, 13, 1838-1849.	0.7	102
64	Compositional analysis of human acquired enamel pellicle by mass spectrometry. Archives of Oral Biology, 2001, 46, 293-303.	0.8	102
65	Identification and characterization of a novel linkage isomerization in the reaction of trans-diamminedichloroplatinum(II) with 5'-d(TCTACGCGTTCT). Biochemistry, 1990, 29, 2102-2110.	1.2	99
66	Tandem mass spectrometric strategies for determination of sulfation positions and uronic acid epimerization in chondroitin sulfate oligosaccharides. Journal of the American Society for Mass Spectrometry, 2003, 14, 1270-1281.	1.2	98
67	Microfluidic Capillary Electrophoresis–Mass Spectrometry for Analysis of Monosaccharides, Oligosaccharides, and Glycopeptides. Analytical Chemistry, 2017, 89, 6645-6655.	3.2	95
68	Tandem Mass Spectrometric Determination of the 4S/6S Sulfation Sequence in Chondroitin Sulfate Oligosaccharides. Analytical Chemistry, 2001, 73, 6030-6039.	3.2	94
69	Epithelial Mesenchymal Transition Induces Aberrant Glycosylation through Hexosamine Biosynthetic Pathway Activation. Journal of Biological Chemistry, 2016, 291, 12917-12929.	1.6	93
70	A chipâ€based amideâ€HILIC LC/MS platform for glycosaminoglycan glycomics profiling. Proteomics, 2009, 9, 686-695.	1.3	92
71	Electron Transfer Dissociation of Milk Oligosaccharides. Journal of the American Society for Mass Spectrometry, 2011, 22, 997-1013.	1.2	90
72	High pressure matrix-assisted laser desorption/ionization Fourier transform mass spectrometry for minimization of ganglioside fragmentation. Journal of the American Society for Mass Spectrometry, 2002, 13, 402-407.	1.2	89

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73	Comparative glycomics of connective tissue glycosaminoglycans. Proteomics, 2008, 8, 1384-1397.	1.3	88
74	Redox Regulation of Sirtuin-1 by <i>S</i> -Glutathiolation. Antioxidants and Redox Signaling, 2010, 13, 1023-1032.	2.5	88
75	N-Glycans of Caenorhabditis elegans Are Specific to Developmental Stages. Journal of Biological Chemistry, 2005, 280, 26063-26072.	1.6	87
76	Heparin-Mediated Conformational Changes in Fibronectin Expose Vascular Endothelial Growth Factor Binding Sitesâ€. Biochemistry, 2006, 45, 10319-10328.	1.2	87
77	Ganglioside analysis by thin-layer chromatography matrix-assisted laser desorption/ionization orthogonal time-of-flight mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 1552-1560.	1.2	80
78	Collisionally activated dissociation and electron capture dissociation provide complementary structural information for branched permethylated oligosaccharides. Journal of the American Society for Mass Spectrometry, 2008, 19, 138-150.	1.2	80
79	The Fine Structure of Caenorhabditis elegans N-Glycans. Journal of Biological Chemistry, 2002, 277, 49143-49157.	1.6	79
80	Enhancing glycan isomer separations with metal ions and positive and negative polarity ion mobility spectrometry-mass spectrometry analyses. Analytical and Bioanalytical Chemistry, 2017, 409, 467-476.	1.9	78
81	Generation of large radical ions from oligometallocenes by matrix-assisted laser desorption ionization. Rapid Communications in Mass Spectrometry, 1993, 7, 343-351.	0.7	77
82	A novel human autoantigen, endothelial cell growth factor, is a target of T and B cell responses in patients with Lyme disease. Arthritis and Rheumatism, 2013, 65, 186-196.	6.7	76
83	Identification of Methionine as the Site of Covalent Attachment of a p-Benzoyl-Phenylalanine-containing Analogue of Substance P on the Substance P (NK-1) Receptor. Journal of Biological Chemistry, 1996, 271, 25797-25800.	1.6	75
84	Extracellular vimentin is an attachment factor that facilitates SARS-CoV-2 entry into human endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	75
85	Variability in the Structural Requirements for Binding of Human Monoclonal Anti-Myelin-Associated Glycoprotein Immunoglobulin M Antibodies and HNK-1 to Sphingoglycolipid Antigens. Journal of Neurochemistry, 1990, 55, 594-601.	2.1	73
86	In Vitro and in Vivo Interactions of Homocysteine with Human Plasma Transthyretin. Journal of Biological Chemistry, 2003, 278, 49707-49713.	1.6	73
87	Synthesis and characterization of trans-diamminedichloroplatinum(II) adducts of d(CCTCGAGTCTCC).cntdot.d(GGAGACTCGAGG). Biochemistry, 1990, 29, 811-823.	1.2	72
88	Plasma Peptidylarginine Deiminase IV Promotes VWF-Platelet String Formation and Accelerates Thrombosis After Vessel Injury. Circulation Research, 2019, 125, 507-519.	2.0	72
89	A tandem mass spectrometric approach to determination of chondroitin/dermatan sulfate oligosaccharide glycoforms. Glycobiology, 2006, 16, 502-513.	1.3	70
90	Internal Calibration on Adjacent Samples (InCAS) with Fourier Transform Mass Spectrometry. Analytical Chemistry, 2000, 72, 5881-5885.	3.2	69

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91	Mass spectrometry of glycans. Biochemistry (Moscow), 2013, 78, 710-720.	0.7	69
92	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. Glycobiology, 2017, 27, 280-284.	1.3	69
93	Detailed Glycan Structural Characterization by Electronic Excitation Dissociation. Analytical Chemistry, 2013, 85, 10017-10021.	3.2	68
94	Comparative Proteomics Reveals Dysregulated Mitochondrial O-GlcNAcylation in Diabetic Hearts. Journal of Proteome Research, 2016, 15, 2254-2264.	1.8	68
95	Analysis of derivatized ceramides and neutral glycosphingolipids by high-performance tandem mass spectrometry. Analytical Biochemistry, 1990, 184, 151-164.	1.1	65
96	srf-3, a Mutant of Caenorhabditis elegans, Resistant to Bacterial Infection and to Biofilm Binding, Is Deficient in Glycoconjugates. Journal of Biological Chemistry, 2004, 279, 52893-52903.	1.6	64
97	Direct Detection of <i>S</i> -Palmitoylation by Mass Spectrometry. Analytical Chemistry, 2013, 85, 11952-11959.	3.2	64
98	Glycosylation in the Tumor Microenvironment: Implications for Tumor Angiogenesis and Metastasis. Cells, 2019, 8, 544.	1.8	64
99	Influence of Charge State on Product Ion Mass Spectra and the Determination of 4S/6S Sulfation Sequence of Chondroitin Sulfate Oligosaccharides. Analytical Chemistry, 2002, 74, 3760-3771.	3.2	62
100	A Novel Mutant Cardiac Troponin C Disrupts Molecular Motions Critical for Calcium Binding Affinity and Cardiomyocyte Contractility. Biophysical Journal, 2008, 94, 3577-3589.	0.2	62
101	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. Glycobiology, 2016, 26, 907-910.	1.3	62
102	Electrospray Ionization and Matrix-Assisted Laser Desorption/Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry of Permethylated Oligosaccharides. Analytical Chemistry, 1998, 70, 857-864.	3.2	61
103	Heterogeneity in Primary Structure, Post-Translational Modifications, and Germline Gene Usage of Nine Full-Length Amyloidogenic κ1 Immunoglobulin Light Chains. Biochemistry, 2007, 46, 14259-14271.	1.2	61
104	Chapter 4 New mass spectral approaches to ganglioside structure determinations. Progress in Brain Research, 1994, 101, 45-61.	0.9	60
105	Tandem Mass Spectrometry for Structural Characterization of Proline-Rich Proteins:Â Application to Salivary PRP-3. Analytical Chemistry, 2002, 74, 4124-4132.	3.2	60
106	Competing fragmentation processes in tandem mass spectra of heparin-like glycosaminoglycans. Journal of the American Society for Mass Spectrometry, 2004, 15, 1534-1544.	1.2	60
107	Cellular spelunking: exploring adipocyte caveolae. Journal of Lipid Research, 2007, 48, 2103-2111.	2.0	60
108	Structural details and composition of Trichomonas vaginalis lipophosphoglycan in relevance to the epithelial immune function. Glycoconjugate Journal, 2009, 26, 3-17.	1.4	60

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109	Optimized extraction of glycosaminoglycans from normal and osteoarthritic cartilage for glycomics profiling. Glycobiology, 2007, 17, 25-35.	1.3	59
110	A high pressure matrix-assisted laser desorption ion source for Fourier transform mass spectrometry designed to accommodate large targets with diverse surfaces. Journal of the American Society for Mass Spectrometry, 2004, 15, 128-132.	1.2	58
111	Characterization of Transthyretin Variants in Familial Transthyretin Amyloidosis by Mass Spectrometric Peptide Mapping and DNA Sequence Analysis. Analytical Chemistry, 2002, 74, 741-751.	3.2	57
112	Characterization of a new qQq-FTICR mass spectrometer for post-translational modification analysis and top-down tandem mass spectrometry of whole proteins. Journal of the American Society for Mass Spectrometry, 2005, 16, 1985-1999.	1.2	57
113	Quantification of oxidative posttranslational modifications of cysteine thiols of p21ras associated with redox modulation of activity using isotope-coded affinity tags and mass spectrometry. Free Radical Biology and Medicine, 2007, 42, 823-829.	1.3	55
114	Improved Hydrophilic Interaction Chromatography LC/MS of Heparinoids Using a Chip with Postcolumn Makeup Flow. Analytical Chemistry, 2010, 82, 516-522.	3.2	55
115	Glycomics and glycoproteomics of membrane proteins and cellâ€surface receptors: Present trends and future opportunities. Electrophoresis, 2016, 37, 1407-1419.	1.3	55
116	Construction of a Database of Collision Cross Section Values for Glycopeptides, Glycans, and Peptides Determined by IM-MS. Analytical Chemistry, 2017, 89, 4452-4460.	3.2	55
117	The role of mobile protons in negative ion CID of oligosaccharides. Journal of the American Society for Mass Spectrometry, 2007, 18, 952-960.	1.2	54
118	Mechanistic Insights Into Nitrite-Induced Cardioprotection Using an Integrated Metabolomic/Proteomic Approach. Circulation Research, 2009, 104, 796-804.	2.0	54
119	Energy-Dependent Electron Activated Dissociation of Metal-Adducted Permethylated Oligosaccharides. Analytical Chemistry, 2012, 84, 7487-7494.	3.2	54
120	Enhancing bottomâ€up and topâ€down proteomic measurements with ion mobility separations. Proteomics, 2015, 15, 2766-2776.	1.3	54
121	Characterization and Quantification of Highly Sulfated Glycosaminoglycan Isomers by Gated-Trapped Ion Mobility Spectrometry Negative Electron Transfer Dissociation MS/MS. Analytical Chemistry, 2019, 91, 2994-3001.	3.2	53
122	Bioanalytic applications of mass spectrometry. Current Opinion in Biotechnology, 1999, 10, 22-28.	3.3	51
123	The Modulation of Transthyretin Tetramer Stability by Cysteine 10 Adducts and the Drug Diflunisal. Journal of Biological Chemistry, 2008, 283, 11887-11896.	1.6	51
124	Evidence for a Structural Role for Acid-Fast Lipids in Oocyst Walls of <i>Cryptosporidium</i> , <i>Toxoplasma</i> , and <i>Eimeria</i> . MBio, 2013, 4, e00387-13.	1.8	51
125	Identification and Location of a Cysteinyl Posttranslational Modification in an Amyloidogenic κ1 Light Chain Protein by Electrospray Ionization and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Biochemistry, 2001, 295, 45-56.	1.1	50
126	A Highly Expressed Human Protein, Apolipoprotein B-100, Serves as an Autoantigen in a Subgroup of Patients With Lyme Disease. Journal of Infectious Diseases, 2015, 212, 1841-1850.	1.9	50

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127	Immunogenic HLA-DR-Presented Self-Peptides Identified Directly from Clinical Samples of Synovial Tissue, Synovial Fluid, or Peripheral Blood in Patients with Rheumatoid Arthritis or Lyme Arthritis. Journal of Proteome Research, 2017, 16, 122-136.	1.8	50
128	Role of Glycosaminoglycan Sulfation in the Formation of Immunoglobulin Light Chain Amyloid Oligomers and Fibrils. Journal of Biological Chemistry, 2010, 285, 37672-37682.	1.6	49
129	Annexin A2 is a target of autoimmune T and B cell responses associated with synovial fibroblast proliferation in patients with antibiotic-refractory Lyme arthritis. Clinical Immunology, 2015, 160, 336-341.	1.4	49
130	Synthesis of a new nanomolar saccharide inhibitor of lymphocyte adhesion: different polylactosamine backbones present multiple sialyl Lewis x determinants to L-selectin in high-affinity mode. Glycobiology, 1997, 7, 453-461.	1.3	48
131	Identification ofS-sulfonation andS-thiolation of a novel transthyretin Phe33Cys variant from a patient diagnosed with familial transthyretin amyloidosis. Protein Science, 2003, 12, 1775-1785.	3.1	48
132	Characterization of Proteins Associated with Polyglutamine Aggregates. Prion, 2007, 1, 128-135.	0.9	48
133	Time, life… and mass spectrometry New techniques to address biological questions. Biophysical Chemistry, 1997, 68, 173-188.	1.5	47
134	Post-source decay mass spectrometry: optimized calibration procedure and structural characterization of permethylated oligosaccharides. , 1999, 34, 364-376.		47
135	Role of Endocytic Inhibitory Drugs on Internalization of Amyloidogenic Light Chains by Cardiac Fibroblasts. American Journal of Pathology, 2006, 169, 1939-1952.	1.9	47
136	CD1c bypasses lysosomes to present a lipopeptide antigen with 12 amino acids. Journal of Experimental Medicine, 2009, 206, 1409-1422.	4.2	47
137	RuvbL1 and RuvbL2 enhance aggresome formation and disaggregate amyloid fibrils. EMBO Journal, 2015, 34, 2363-2382.	3.5	47
138	Liquid secondary ionization, tandem and matrix-assisted laser desorption/ionization time-of-flight mass spectrometric characterization of glycosphingolipid derivatives. Organic Mass Spectrometry, 1994, 29, 720-735.	1.3	46
139	Nitrosyl complexes of technetium: synthesis and characterization of [Tcl(NO)(CNCMe3)5](PF6)2 and Tc(NO)Br2(CNCMe3)3 and the crystal structure of Tc(NO)Br2(CNCMe3)3. Inorganic Chemistry, 1986, 25, 2085-2089.	1.9	45
140	Amyloid precursor protein interacts with notch receptors. Journal of Neuroscience Research, 2005, 82, 32-42.	1.3	45
141	Emerging roles of postâ€ŧranslational modifications in signal transduction and angiogenesis. Proteomics, 2015, 15, 300-309.	1.3	44
142	Matrix metalloproteinase-10 is a target of T and B cell responses that correlate with synovial pathology in patients with antibiotic-refractory Lyme arthritis. Journal of Autoimmunity, 2016, 69, 24-37.	3.0	44
143	Multi-isotype Glycoproteomic Characterization of Serum Antibody Heavy Chains Reveals Isotype- and Subclass-Specific N-Glycosylation Profiles. Molecular and Cellular Proteomics, 2019, 18, 686-703.	2.5	44
144	Giardia Cyst Wall Protein 1 Is a Lectin That Binds to Curled Fibrils of the GalNAc Homopolymer. PLoS Pathogens, 2010, 6, e1001059.	2.1	43

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145	De Novo Sequencing of Heparan Sulfate Oligosaccharides by Electron-Activated Dissociation. Analytical Chemistry, 2013, 85, 11979-11986.	3.2	43
146	A general method for precalculation of parameters for sustained off resonance irradiation/collision-induced dissociation. Journal of the American Society for Mass Spectrometry, 2002, 13, 318-324.	1.2	42
147	Hypoxia-induced expression of phosducin-like 3 regulates expression of VEGFR-2 and promotes angiogenesis. Angiogenesis, 2015, 18, 449-462.	3.7	42
148	Toward Automatic and Comprehensive Glycan Characterization by Online PGC-LC-EED MS/MS. Analytical Chemistry, 2020, 92, 782-791.	3.2	42
149	Protein signatures of centenarians and their offspring suggest centenarians age slower than other humans. Aging Cell, 2021, 20, e13290.	3.0	42
150	Identification of surface-exposed components of MOMP of Chlamydia trachomatis serovar F. Protein Science, 2006, 15, 122-134.	3.1	41
151	Autoantibodies from Synovial Lesions in Chronic, Antibiotic Treatment-Resistant Lyme Arthritis Bind Cytokeratin-10. Journal of Immunology, 2006, 177, 2486-2494.	0.4	41
152	Top-down analysis of small plasma proteins using an LTQ-Orbitrap. Potential for mass spectrometry-based clinical assays for transthyretin and hemoglobin. International Journal of Mass Spectrometry, 2011, 300, 130-142.	0.7	41
153	Higher coordinate complexes. Part 22. Synthesis and reactions of seven-coordinate technetium and rhenium alkyl isocyanide complexes. Organometallics, 1985, 4, 139-142.	1.1	40
154	Synthesis of Monodisperse Polymers from Proteins. Journal of the American Chemical Society, 2003, 125, 12392-12393.	6.6	40
155	Attomole Peptide Analysis by High-Pressure Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry. Analytical Chemistry, 2003, 75, 6449-6454.	3.2	39
156	The influence of sialylation on glycan negative ion dissociation and energetics. Journal of the American Society for Mass Spectrometry, 2006, 17, 844-854.	1.2	39
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